

L Number	Search Text	DB	Time stamp
141	(378/136).CCLS.	USPAT	2001/10/10 08:10
1890	378/\$.ccls. and vacuum	USPAT	2001/10/08 12:52
839	(378/\$.ccls. and vacuum) and \$8cathode and emitter	USPAT	2001/10/08 13:03
143	((378/\$.ccls. and vacuum) and \$8cathode) and emitter and ("focal spot")	USPAT	2001/10/08 13:03
42	((378/\$.ccls. and vacuum) and \$8cathode) and emitter and ("focal spot")	USPAT	2001/10/08 13:03
39	((378/\$.ccls. and vacuum) and \$8cathode) and emitter and ("focal spot")	USPAT	2001/10/08 12:58
14	and (anode or (target adj anode))	USPAT	2001/10/08 13:03
7	((378/\$.ccls. and vacuum) and \$8cathode) and perveance and emitter	USPAT	2001/10/08 13:03
3	((378/\$.ccls. and vacuum) and \$8cathode) and perveance and emitter and	USPAT	2001/10/08 13:03
19	("focal spot")	USPAT	2001/10/08 13:10
6053	((378/\$.ccls. and vacuum) and \$8cathode) and (emitter adj3 (converg\$3 or focus\$5 or shap\$5))	USPAT	2001/10/09 07:02
4973	(x-ray or xray) adj (tube or device) and (emitter or cathode or source)	USPAT	2001/10/09 08:01
1740	((x-ray or xray) adj (tube or device)) and (emitter or cathode or source))	USPAT	2001/10/09 07:07
507	((x-ray or xray) adj shap\$5 or focus\$5) and (emitter or cathode or source))	USPAT	2001/10/09 08:04
91	((x-ray or xray) adj shap\$5 or focus\$5) and (emitter or cathode or source) and (beam or electron) adj shap\$5 or focus\$5) and (foc\$5 adj spot) and (beam or electron) adj shap\$5 or focus\$5) and (foc\$5 adj spot) and (emitter adj efficiency) or (focal adj spot adj reduction) or spot) and (emitter adj current) or perveance	USPAT	2001/10/09 07:19
0	(beam adj focusing) or (beam adj current) or perveance	USPAT	2001/10/09 07:29
7	((x-ray or xray) adj (tube or device)) and (emitter and (perveance))	USPAT	2001/10/09 07:22
2	((x-ray or xray) adj (tube or device)) and (emitter and (perveance)) and (foc\$5 adj spot)	USPAT	2001/10/09 07:23
1	((x-ray or xray) adj (tube or device)) and (emitter near10 shape) and (perveance))	USPAT	2001/10/09 07:30
142	perveance	USPAT	2001/10/09 07:31
353	emitter and bunch\$5	USPAT	2001/10/09 08:02
30	(emitter and bunch\$5) and perveance	USPAT	2001/10/09 08:02
7	((x-ray or xray) adj (tube or device)) and (emitter or cathode or source)) and (beam or electron) adj shap\$5 or focus\$5) and (foc\$5 adj spot) and bunch\$5	USPAT	2001/10/09 08:02
4021	emitter same shape	USPAT	2001/10/09 08:05
1	"US 3963955 A".DID. and perveance	USPAT	2001/10/09 14:14
103	integral adj cathode	USPAT	2001/10/09 14:55
1814	(spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (emitter or cathode)	USPAT	2001/10/09 14:56
13	(spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (emitter or cathode)	USPAT	2001/10/09 15:17
2	and perveance	USPAT	2001/10/09 15:10
3764	4227116.URFN.	USPAT	2001/10/09 15:13
19	(spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (emitter or cathode or source)	USPAT	2001/10/11 07:33
327	((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (filament) and (x-ray adj tube) or (xray adj tube))	USPAT	2001/10/09 15:24
9		USPAT	2001/10/09 15:23

-	1	((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (filament)) and	USPAT	2001/10/09 15:24
-	12	perveance ((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (emitter or cathode or source)) and (focal adj spot)	USPAT	2001/10/09 15:27
-	3629	concave adj lens	USPAT	2001/10/09 15:30
-	3629	"concave lens"	USPAT	2001/10/09 15:28
-	734	"concave lens" and "light ray"	USPAT	2001/10/09 15:28
-	5	"concave lens" and "light ray" and "focal point"	USPAT	2001/10/09 15:31
-	222	"concave lens" and "light ray" and "focal point"	USPAT	2001/10/09 15:30
-	4311	concave adj mirror	USPAT	2001/10/09 15:34
-	1016	(concave adj mirror) and "focal point" and "focal spot"	USPAT	2001/10/09 15:40
-	32	((concave adj mirror) and "focal point") and perveance	USPAT	2001/10/09 15:35
-	0	((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (emitter or cathode or source)) and ((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (emitter or cathode or source)) and ((x-ray adj tube) or (xray adj tube))	USPAT	2001/10/09 15:35
-	19	((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (emitter or cathode or source)) and83	USPAT	2001/10/09 15:35
-	3764	((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (emitter or cathode or source)) and ("concave lens" and "light ray") and "focal point"	USPAT	2001/10/09 15:36
-	0	emitter adj effi\$7	USPAT	2001/10/09 15:39
-	319	emitter adj effi\$7 and perveance	USPAT	2001/10/09 15:40
-	0	emitter adj effi\$7 and "focal spot"	USPAT	2001/10/09 15:40
-	1	emitter adj effi\$7 and "focal point"	USPAT	2001/10/09 15:42
-	915	"electron beam" near shap\$4	USPAT	2001/10/09 15:44
-	38	(emitter same shape) and ("electron beam" near shap\$4)	USPAT	2001/10/09 15:50
-	235	thermionic adj emitter	USPAT	2001/10/09 15:51
-	5	thermionic adj emitter and perveance	USPAT	2001/10/09 15:52
-	1944	electron adj emitter	USPAT	2001/10/09 15:52
-	6	(electron adj emitter) and perveance	USPAT	2001/10/10 08:10
-	37	(378/129).CCLS.	USPAT	2001/10/10 12:01
-	202	(378/121).CCLS.	USPAT	2001/10/10 12:02
-	3	((("5264801") or ("5515413") or ("4792687"))).PN.	USPAT	2001/10/11 07:38
-	327	((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (filament)) and	USPAT	2001/10/11 07:43
-	36	((spheri\$5 or cylindrical or hyperbo\$8 or con\$5) adj (filament)) and	USPAT	2001/10/11 07:39
-	430	(method adj making)	USPAT	2001/10/11 07:39
-	47	((spheri\$5 or cylindrical or hyperbo\$8 or con\$5 or curv\$5) adj (filament))	USPAT	2001/10/11 07:41
-	308	((spheri\$5 or hyperbo\$8 or con\$5 or curv\$5) adj (filament)) and (method adj	USPAT	2001/10/11 07:40
-	30	((spheri\$5 or hyperbo\$8 or con\$5 or curv\$5) adj (filament)) and (method adj	USPAT	2001/10/11 07:43
-	138	making)	USPAT	2001/10/11 07:41
-	13	((spheri\$5 or hyperbo\$8 or concave or convex or curv\$5) adj (filament)) and	USPAT	2001/10/11 07:47
-	463	(method adj making)	USPAT	2001/10/11 07:47
-	40	((spheri\$5 or hyperbo\$8 or concave or convex or curv\$5) adj (filament or	USPAT	2001/10/11 07:47
-	34821	emitter or source)) and (method adj making)	USPAT	2001/10/11 07:48
-	687	((spheri\$5 or hyperbo\$8 or concave or convex or curv\$5 or deform\$5) adj	USPAT	2001/10/11 07:53
-		(filament or emitter or source)		

48	((spheri\$5 or hyperbo\$8 or concave or convex or curv\$5) adj (filament or emitter or source)) and ((method adj making) or (method adj manufact\$4))	USPAT	2001/10/11 07:54
90	((spheri\$5 or hyperbo\$8 or concave or convex or curv\$5 or deform\$5) adj (filament or emitter or source)) and ((method adj making) or (method adj manufact\$4))	USPAT	2001/10/11 08:02
1350	(spherical or concave or convex or curved or shaped or shaping or curving) adj (filament or emitter or source)	USPAT	2001/10/11 08:01
203	((spherical or concave or convex or curved or shaped or shaping or curving) adj (filament or emitter or source)) and ((method adj making) or (method adj manufact\$4))	USPAT	2001/10/11 07:55
188	((spherical or concave or convex or curved or shaped or shaping or curving or bend or bending) adj (filament or emitter)) and ((method adj making) or (method adj manufact\$4))	USPAT	2001/10/11 08:02
1085	(spherical or concave or convex or curved or shaped or shaping or curving or bend or bending) adj (filament or emitter)	USPAT	2001/10/11 08:08
2894	shape with emiss\$5 with focal near spot	USPAT	2002/06/04 10:05
5	(shape with (focal near spot))	USPAT	2002/06/04 10:07
204	(shape with (focal near spot)) and x?ray	USPAT	2002/06/04 10:07
134	((shape with (focal near spot))) and 378/\$.ccls.	USPAT	2002/06/04 10:08
122	(shape with curv\$6 with (focal near (spot or point)))	USPAT	2002/06/04 10:10
1709	emitter with curv\$6 with (focal near (spot or point))	USPAT	2002/06/04 10:13
7	(emitter with (curv\$6 or shape)) with (focal near (spot or point))	USPAT	2002/06/04 10:14
18	(emitter or source or anode) near\$5 (curv\$6 or shape)	USPAT	2002/06/04 10:19
15629	(emitter or source or cathode) near\$5 (curv\$6 or shape)	USPAT	2002/06/04 10:21
16598	(emitter or source or cathode) near\$5 (curv\$6 or shape) with (focal near (spot or point))	USPAT	2002/06/04 10:30
170	(spot or point)	USPAT	2002/06/04 10:31
222	electro?magnetic near spectrum	USPAT	2002/06/04 10:32
301	(concave or convex) near (emitter or source) with focal near (point or spot)	USPAT	2002/06/04 10:35
7	(concave or convex) near (emitter or source) with focal near (point or spot)	USPAT	2002/06/04 10:36
2	(curv\$4) near (emitter or source) with focal near (point or spot)	USPAT	2002/06/04 10:38
13	(emitter with curv\$6) and 378/\$.ccls.	USPAT	2002/06/04 10:39
1703	electron near\$2 converg\$4	USPAT	2002/06/04 10:44
63	(electron near\$2 converg\$4) and 378/\$.ccls.	USPAT	2002/06/04 10:45
12853	geometric near shape	USPAT	2002/06/04 10:46
6	(geometric near shape) near (emitter or source)	USPAT	2002/06/04 10:47
664	(electron near beam) with trajectory	USPAT	2002/06/04 10:50
17	((electron near beam) with trajectory) with emitter	USPAT	2002/06/04 10:51
1779	concavo?convex	USPAT	2002/06/04 10:52
21	(concavo?convex) with (emitter or source)	USPAT	2002/06/04 10:55
9	(concavo?convex) near\$5 (emitter or source)	USPAT	2002/06/04 10:55
770	(curved or convex or concave or ellipse or circular or spherical) near\$5 emitter	USPAT	2002/06/04 11:01
12	((curved or convex or concave or ellipse or circular or spherical) near\$5 emitter) and 378/\$.ccls.	USPAT	2002/06/04 10:56
11	((curved or convex or concave or ellipse or circular or spherical) near\$5 emitter) with focal near (spot or point)	USPAT	2002/06/04 10:57
34	4205686.URPN.	USPAT	2002/06/04 11:00
40	(curved or convex or concave or ellipse or circular or spherical) near\$5 emitter and x?ray	USPAT	2002/06/04 11:02
306	(curved or convex or concave or ellipse or circular or spherical) near\$5 emitter and electron	USPAT	2002/06/04 11:04
115	(313/411).CCLS.	USPAT	2002/06/04 11:13



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		Number of pages
No.	Doccode	
		8
1	CTFR	1
2	892	1
3	1449	

Total number of pages: 10

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